Fig 1

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**1a**: 
$$R^3 = t$$
-Bu;  $R^1 = R^2 = i$ -Pr

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**1b**: 
$$R^3 = t$$
-Bu;  $R^1 = R^2 = Me$ 

**1c**: 
$$R^3$$
 = adamantyl;  $R^1$  =  $R^2$  = *i*-Pr

1d: 
$$R^3$$
 = adamantyl;  $R^1$ =  $R^2$ = Me

**1e**: 
$$R^3$$
 = ethyl;  $R^1$  =  $R^2$  = *i*-Pr

**1f**: 
$$R^3 = \text{ethyl}$$
;  $R^1 = R^2 = Me$ 

**2a**: 
$$R^3 = 2,4,6$$
-tri(*i*-propyl)phenyl;  $R^1 = R^2 = i$ -Pr;

**2b**: 
$$R^3 = 2,4,6$$
-tri(*i*-propyl)phenyl;  $R^1 = R^2 = Me$ 

**2c**: 
$$R^3 = t$$
-Bu;  $R^1 = R^2 = i$ -Pr;  $R^4 = t$ -Bu

**2d**: 
$$R^3 = t$$
-Bu;  $R^1 = R^2 = Me$ ;  $R^4 = t$ -Bu

**2e**: 
$$R^3 = Ph$$
;  $R^1 = R^2 = i - Pr$ ;  $R^4 = H$ 

**2f**: 
$$R^3 = Ph$$
;  $R^1 = R^2 = Me$ ;  $R^4 = H$ 

Fig 2

And the light has a first for the last first from the first first first from the first first first from the first first

Fig 3

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Me 
$$\frac{5 \text{ mol}\% \text{ cat.}}{C_6 H_6}$$
 Me  $\frac{5 \text{ mol}\% \text{ cat.}}{(R) - 56}$  (S) - 57

Fig 4

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Fig 5c (±) - 59

Fig 5e (±)-61

Fig 5b (R) - 58

Fig 5d (R) - 60

Fig 5f (R) - 62

Fig 5h (R) - 64

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PCT/US99/15816

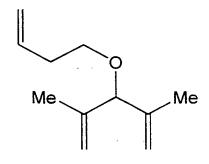
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65

Fig 6a

67

Fig 6c



69

Fig 6e

(R) - 66

Fig 6b

(R) - 68

Fig 6d

(R) - 70

Fig 6f

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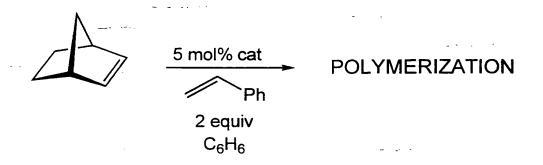


Fig 7a

Fig 7c

from the first two of the first from II is then II is then II is then I is the I is the

Hall Hall

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Fig 8a

85%, >98% ee, >98% trans

Fig 8b

52%, 82% ee, >98% trans

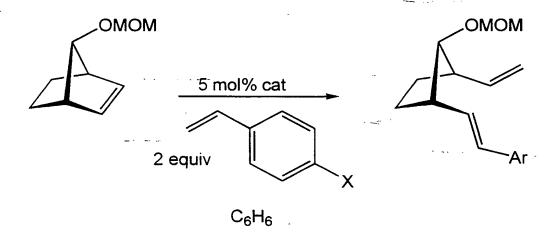
Fig 8c

\$-4°

ini.

i de

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X
OMe 73%, >98% ee, >98% trans
H 74%, >98% ee, >98% trans
CF<sub>3</sub> 77%, >98% ee, >98% trans

Fig 9

Art Anna Arne Arne of the Albert of Same Arne of the A

The proof of the state of the s

The shown shows at the short of the short of

-31

The first of the same

jal.

i i

Fig 11

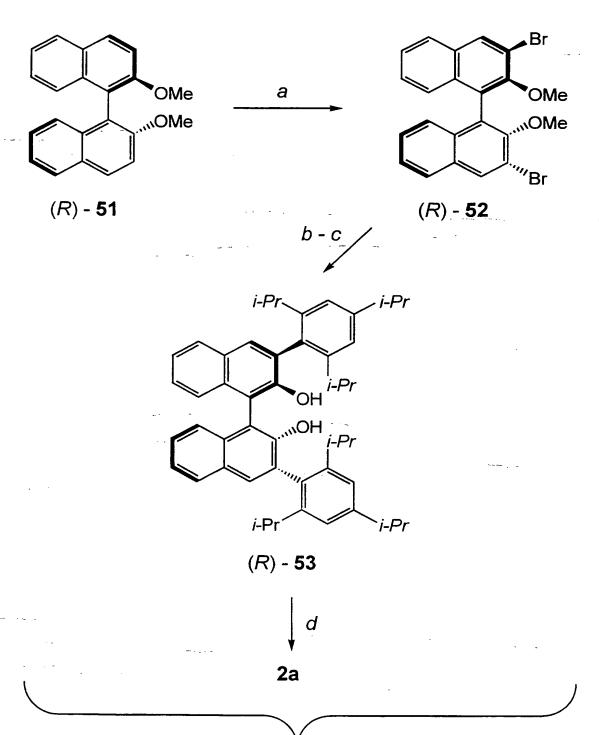


Fig 12

The first first

Fig 14b

Fig 14d

116

Fig 15c

$$= \bigcap_{\mathsf{R}} \bigcap_{\mathsf{R}}$$

112

Fig 15b

117

Fig 15d

<sup>-</sup> 16/16

118

Fig 16a

water from owner control than the control of the co

119

Fig 16b

oligomeric products

121

Fig 16c